

PATENT ABSTRACTS OF JAPAN

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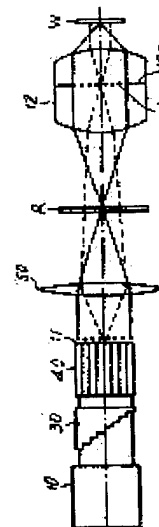
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(54) LIGHTING OPTICAL DEVICE

(57)Abstract:

PURPOSE: To realize lighting superior in uniformity by providing an optical path difference generating member which generates optical path differences in optical path length corresponding to secondary light sources between a coherent light source and a secondary light source forming member.

CONSTITUTION: Parallel luminous flux from the coherent light source 10 is transmitted through a stepwise prism 10 as the optical path difference generating member to reach a lenticular lens 40, at which plural secondary light sources 11 are generated. Then, luminous flux from the secondary light sources 11 is guided to a reticle R as a body to be lighted through a condenser lens 50 to light up the reticle R. This invention uses the coherent light source such as a laser, but provides lighting extremely superior in uniformity; and brighter uniform lighting than before is realized by a high-brightness and high-efficiency light source such as an excimer laser.



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